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Sheet 1 of 2

FORM PTO-1449
(Rev. 2-32)U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.

04-372
(400/137)

Serial No.

10/698,311

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

Applicant:

McSwiggen et al.

Filing Date: Group:

October 31, 2003

1632

U.S. PATENT APPLICATION DOCUMENTS

Examiner Initial		Document Number	Filing Date	Name	Class	Subclass	Publication Date If Appropriate
JW	.	US 2003/0190635	10/2003	McSwiggen et al.			
JW	.	US 2003/0206887	11/2003	Morrissey et al.			

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
1.	1325955	07/09/03	EP (Klippen-Giese et al.)					
2.	95/04142	02/09/95	WO (Robinson)					
3.	99/04819	02/04/99	WO (Klimuk et al.)					
4.	99/55857	11/04/99	WO (Beigelman et al.)					
5.	01/097850	12/27/01	WO (Siemeister et al.)					
6.	02/07747	01/31/02	WO (King)					
7.	02/10378	02/07/02	WO (Cowser et al.)					
8.	02/096927	12/05/02	WO (Escobedo et al.)					

EXAMINER

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10/3/05

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McDONNELL RECHNER
HALLERET & REEDON LLP
200 SOUTH WACKER DRIVE
CHICAGO, ILLINOIS 60606
TELEPHONE (312) 911-1000

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JUN 13 2005
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<i>lw</i>	9.	03/068797	08/21/03	WO (Rossi et al.)				
<i>lw</i>	10.	03/070910	08/28/03	WO (McSwiggen et al.)				
<i>lw</i>	11.	03/080638	10/02/03	WO (Lacasse et al.)				
<i>lw</i>	12.	04/043977	05/27/04	WO (Prakush et al.)				
<i>lw</i>	13.	04/072261	08/26/04	WO (Li et al.)				
<i>lw</i>	16.	08200687	08/1996	JP (Hiroeda et al.)				

Not Considered
Japanese

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

<i>lw</i>	14.	Anderson et al., "Bispecific Short Hairpin siRNA Constructs Targeted to CD4, CXCR4, and CCR5 Confer HIV-1 Resistance," Oligonucleotides, 13:303-312 (2003)
<i>lw</i>	17.	Bayard et al., "Increased stability and antiviral activity of 2'-O-phosphoglyceryl derivatives of (2'-5')oligo(adenylate)," Eur. J. Biochem., 142(29):291-298 (1984)
<i>lw</i>	15.	International Search Report for PCT/US2004/016390 mailed March 31, 2005

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lw

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MCDANIEL BROWN
MURKIN & BERNHARD LLP
330 SOUTH WACKER DRIVE
CHICAGO, ILLINOIS 60606
TELEPHONE: (312) 733-4000

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JW	*	10/151,116	05/17/02	Matulic-Adamic et al.	/	/	
JW	*	10/201,394	08/13/01	Vargeese et al.			
JW	*	10/427,160	04/30/03	Vargeese et al.			
JW	*	2001/0007666	07/12/01	Hoffman et al.			
JW	*	2002/0130430	12/29/00	Caster			
	*	00/082,404	04/20/98	Thompson et al.			Cover Sheet only
JW	*	60/358,580	02/20/02	Beigelman et al.			
JW	*	60/363,124	03/11/02	Beigelman et al.			
JW	*	60/386,782	06/06/02	Beigelman et al.			
JW	*	60/393,796	07/03/02	Beigelman et al.			
JW	*	60/399,348	07/29/02	Beigelman et al.			
JW	*	60/402,996	08/13/02	Usman et al.			
JW	*	60/406,784	08/29/02	Beigelman et al.			
JW	*	60/408,378	09/05/02	Beigelman et al.			
JW	*	60/409,293	09/09/02	Beigelman et al.			

EXAMINER <i>Louis Wotkeleg</i>	DATE CONSIDERED <i>5/27/05</i>
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<i>JW</i>	•	60/440,129	01/15/03	Belgelman et al.				
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U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
<i>JW</i>	•	5,138,045	08/11/92	Cook et al.			
<i>JW</i>	•	5,214,136	05/25/93	Lin et al.			
<i>JW</i>	•	5,334,711	08/02/94	Sproat			
<i>JW</i>	•	5,624,803	04/29/97	Noonberg et al.			
<i>JW</i>	•	5,627,053	05/06/97	Usman et al.			
<i>JW</i>	•	5,631,360	05/20/97	Usman et al.			
<i>JW</i>	•	5,670,633	09/23/97	Cook et al.			
<i>JW</i>	•	5,716,824	02/10/98	Belgelman et al.			
<i>JW</i>	•	5,792,847	08/11/98	Buhr et al.			
<i>JW</i>	•	5,804,683	09/08/98	Usman et al.			
<i>JW</i>	•	5,814,620	09/29/98	Robinson et al.			
<i>JW</i>	•	5,831,071	11/03/98	Usman et al.			
<i>JW</i>	•	5,854,038	12/29/98	Cech et al.			
<i>JW</i>	•	5,889,136	03/30/99	Scaringe et al.			

EXAMINER <i>Tony Wellerby</i>	DATE CONSIDERED <i>5/27/05</i>
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JW	•	5,898,031	04/27/99	Crooke	/	/		
JW	•	5,902,880	05/11/99	Thompson et al.				
JW	•	5,998,203	12/07/99	Adamic et al.				
JW	•	6,001,311	12/14/99	Brennan				
JW	•	6,005,087	12/21/99	Cook et al.				
JW	•	6,008,400	12/28/99	Scaringe et al.				
JW	•	6,054,576	04/25/00	Bellon et al.				
JW	•	6,107,094	08/22/00	Crooke				
JW	•	6,111,086	08/29/00	Scaringe et al.				
JW	•	6,117,657	09/12/00	Usman et al.				
JW	•	6,146,886	11/14/00	Thompson et al.				
JW	•	6,153,737	11/28/00	Manoharan et al.				
JW	•	6,162,909	12/19/00	Bellon et al.				
JW	•	6,180,613	01/30/01	Kaplitt et al.				
JW	•	6,235,310	05/22/01	Wang et al.				
JW	•	6,235,886	05/22/01	Manoharan et al.				
JW	•	6,300,074	10/09/01	Gold				
JW	•	6,303,773	10/16/01	Bellon et al.				
JW	•	6,335,434	01/01/02	Guzaev et al.				

EXAMINER <u>John Wotterley</u>	DATE CONSIDERED <u>5/27/05</u>
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JW	*	6,353,098	03/05/02	Usman et al.				
JW	*	6,362,323	03/26/01	Usman et al.				
JW	*	6,395,713	05/28/02	Belgelman et al.				
JW	*	6,437,117	08/20/02	Usman et al.				
JW	*	6,447,796	09/10/02	Vook et al.				
JW	*	6,469,158	10/22/02	Usman et al.				
JW	*	6,476,205	11/05/02	Buhr et al.				
JW	*	6,506,559	06/14/03	Fire et al.				
JW	*	6,528,631	03/04/03	Cook et al.				
JW	*	6,586,524	07/01/03	Sagara et al.				

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
JW	1.	4037501		AU (Graham et al.)	/	/		
JW	2.	2,359,180	08/03/00	CA (Kreutzer et al.)	/	/		
	3.	1144623 B1	01/29/02	EP (Kreutzer et al.)	—	—	Non English document	
JW	4.	89/02439	03/23/89	WO (Arnold et al.)	—	—		

EXAMINER <u>Louise Wetterage</u>	DATE CONSIDERED <u>5/27/05</u>
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JW	5.	90/14090	11/29/90	WO (Gillespie et al.)					
JW	6.	91/03162	03/21/91	WO (Rossi et al.)					
JW	7.	92/07065	04/30/92	WO (Eckstein et al.)					
JW	8.	93/15187	08/05/93	WO (Usman et al.)					
JW	9.	93/23569	11/25/93	WO (Draper et al.)					
JW	10.	94/01550	01/20/94	WO (Agrawal et al.)					
JW	11.	94/02595	02/03/94	WO (Sullivan et al.)					
JW	12.	95/06731	03/09/95	WO (Usman et al.)					
JW	13.	95/11910	05/04/95	WO (Dudycz et al.)					
JW	14.	96/10390	04/11/96	WO (Ansell et al.)					
JW	15.	96/10391	04/11/96	WO (Choi et al.)					
JW	16.	96/10392	04/11/96	WO (Holland et al.)					
JW	17.	96/18736	06/20/96	WO (Beigelman, et al.)					
JW	18.	97/26270	07/24/97	WO (Beigelman et al.)					
JW	19.	98/13526	04/02/98	WO (Woolf et al.)					
JW	20.	99/07409	02/18/99	WO (Deschamps Depaillette et al.)					
JW	21.	99/14226	03/25/99	WO (Wengel et al.)					
JW	22.	99/31262	06/24/99	WO (Barry et al.)					
JW	23.	99/32619	07/01/99	WO (Fire et al.)					

Non-English Doc

EXAMINER	<i>Tom Wellerberger</i>	DATE CONSIDERED	<i>5/27/05</i>
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JW	24.	99/49029	09/30/99	WO (Graham et al.)				
JW	25.	99/53050	10/21/99	WO (Waterhouse et al.)				
JW	26.	99/54459	10/28/99	WO (Thompson et al.)				
JW	230.	99/61631	12/02/99	WO (Heifetz et al.)				
JW	27.	00/01846	01/13/00	WO (Plaetinck et al.)				
JW	28.	00/44895	08/03/00	WO (Kreutzer et al.)				
JW	29.	00/44914	08/03/00	WO (Li et al.)				
JW	30.	00/49035	08/24/00	WO (Jen Sheen)				
JW	31.	00/53722	09/14/00	WO (O'Hare and Normand)				
JW	32.	00/63364	10/26/00	WO (Pachuk et al.)				
JW	33.	00/66604	11/09/00	WO (Wengel et al.)				
JW	34.	01/04313	01/18/01	WO (Satishchandran et al.)				
JW	35.	01/29058	04/26/01	WO (Mello et al.)				
JW	36.	01/36646	05/25/01	WO (Zernicka-Goetz et al.)				
JW	37.	01/38551	05/31/01	WO (Grossniklaus)				
JW	38.	01/42443	06/14/01	WO (Churikov et al.)				
JW	39.	01/49844	07/12/01	WO (Driscoll et al.)				
JW	40.	01/53475	07/26/01	WO (Cogoni et al.)				
JW	41.	01/68836	09/20/01	WO (Beach et al.)				

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✓ 42.	01/70944	09/27/01	WO (Honer et al.)				
✓ 43.	01/70949	09/27/01	WO (Graham et al.)				
✓ 44.	01/72774	10/04/01	WO (Deak et al.)				
✓ 45.	01/75164	10/11/01	WO (Tuschl et al.)				
✓ 46.	01/92513	12/06/01	WO (Arndt et al.)				
✓ 47.	01/96584	12/20/01	WO (Mushegian et al.)				
✓ 48.	02/22636	03/21/02	WO (Bennett et al.)				
✓ 49.	02/38805	05/16/02	WO (Echeverri et al.)				
✓ 50.	02/44321	06/06/02	WO (Tuschl et al.)				
✓ 51.	02/55692	07/18/02	WO (Kreutzer et al.)				
✓ 52.	02/55693	07/18/02	WO (Kreutzer et al.)				
✓ 53.	PCT/US03/05028	02/20/03	WO (McSwiggen et al.)				
✓ 54.	PCT/US03/05346	02/20/03	WO (McSwiggen et al.)				
✓ 55.	03/046185	06/05/03	WO (Wang et al.)				
✓ 56.	03/047518	06/12/03	WO (Wang et al.)				

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- ✓ 57. Akhtar and Juliano, "Cellular Uptake and Intracellular Fate of AntiSense Oligonucleotides," Trends Cell Biol. 2:139-144 (1992)

EXAMINER <i>John Wohleb</i>	DATE CONSIDERED <i>5/31/05</i>
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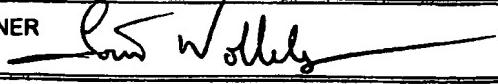
58.	Aldrian-Herrada et al., "A peptide nucleic acid (PNA) is more rapidly internalized in cultured neurons when coupled to a <i>retro-inverso</i> delivery peptide. The antisense activity depresses the target mRNA and protein in magnocellular oxytocin neurons," <i>Nucleic Acids Research</i> 26:4910-4916 (1998)
59.	Allshire, "RNAi and Heterochromatin - A Hushed-up Affair," <i>Science</i> 297:1818-1819 (2002)
60.	Andrews and Faller, "A rapid micropreparation technique for extraction of DNA-binding proteins from limiting numbers of mammalian cells," <i>Nucleic Acids Research</i> 19:2499 (1991)
61.	Baenziger and Fiete, "Galactose and N-Acetylgalactosamine-Specific Endocytosis of Glycopeptides by Isolated Rat Hepatocytes," <i>Cell</i> 22:611-620 (1980)
62.	Bahramian et al., "Transcriptional and Posttranscriptional Silencing of Rodent α 1(I) Collagen by a Homologous Transcriptionally Self-Silenced Transgene," <i>Molecular and Cellular Biology</i> , 19:274-283 (1999)
63.	Bannai et al., "Effect of Injection of Antisense of Oligodeoxynucleotides of GAD Isozymes into Rat Ventromedial Hypothalamus on Food Intake and Locomotor Activity," <i>Brain Research</i> 784:305-315 (1998)
64.	Bannai et al., "Water-absorbent Polymer as a Carrier for a Discrete Deposit of Antisense Oligodeoxynucleotides in the Central Nervous System," <i>Brain Research Protocols</i> 3:83-87 (1998)
65.	Bass, "The short answer," <i>Nature</i> 411:428-429 (2001)
66.	Beigelman et al., "Chemical Modification of Hammerhead Ribozymes," <i>The Journal of Biological Chemistry</i> 270:25702-25708 (1995)
67.	Bellon et al., "Amino-Linked Ribozymes: Post-Synthetic Conjugation of Half-Ribozymes," <i>Nucleosides & Nucleotides</i> 16:951-954 (1997)
68.	Bellon et al., "Post-synthetically Ligated Ribozymes: An Alternative Approach to Iterative Solid Phase Synthesis," <i>Bioconjugate Chem.</i> 8:204-212 (1997)

EXAMINER <i>Sue Wolub</i>	DATE CONSIDERED <i>5/31/05</i>
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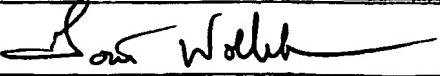
✓	69.	Bernstein et al., "Role for a Bidentate Ribonuclease in the Initiation Step of RNA Interference," <i>Nature</i> 409:363-366 (2001)
✓	70.	Bettinger et al., "Size Reduction of Galactosylated PEI/DNA Complexes Improves Lectin-Mediated Gene Transfer into Hepatocytes," <i>Bioconjugate Chem.</i> , 10, 558-561 (1999)
✓	71.	Boado et al., "Drug Delivery of Antisense Molecules to the Brain for Treatment of Alzheimer's Disease and Cerebral AIDS," <i>Journal of Pharmaceutical Sciences</i> 87:1308-1315 (1998)
✓	72.	Boado, "Antisense drug delivery through the blood-brain barrier," <i>Advanced Drug Delivery Reviews</i> 15:73-107 (1995)
✓	73.	Bonifati et al., "Mutations in the DJ-1 Gene Associated with Autosomal Recessive Early-Onset Parkinsonism," <i>Science</i> , doi:10.1126/science.1077209 (2002)
✓	74.	Brennan et al., "Two-Dimensional Parallel Array Technology as a New Approach to Automated Combinatorial Solid-Phase Organic Synthesis," <i>Biotechnology and Bioengineering (Combinatorial Chemistry)</i> 61:33-45 (1998)
✓	75.	Broaddus et al., "Distribution and stability of antisense phosphorothioate oligonucleotides in rodent brain following direct intraparenchymal controlled-rate infusion," <i>Neurosurg. Focus</i> 3(5):Article 4 (1997)
✓	76.	Broaddus et al., "Distribution and stability of antisense phosphorothioate oligonucleotides in rodent brain following direct intraparenchymal controlled-rate infusion," <i>J Neurosurg</i> 88:734-742 (1998)
✓	77.	Brody and Gold, "Aptamers as therapeutic and diagnostic agents," <i>Reviews in Molecular Biotechnology</i> 74:5-13 (2000)
✓	78.	Burgin et al., "Chemically Modified Hammerhead Ribozymes with Improved Catalytic Rates," <i>Biochemistry</i> 35:14090-14097 (1996) (volume no. mistakenly listed as 6)
✓	79.	Burlina et al., "Chemical Engineering of RNase Resistant and Catalytically Active Hammerhead Ribozymes," <i>Bioorganic & Medicinal Chemistry</i> 5:1999-2010 (1997)

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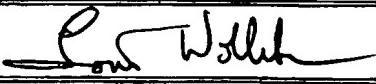
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FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 04-372 (400/137)	Serial No. 10/698,311
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 THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		04-372 (400/137)	10/698,311	
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							Yes	No
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